

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (currently amended) A seat for a vehicle, comprising:
 - a seat back,
 - a seat cushion
 - at least one power adjustment actuator coupled to the seat, the actuator comprising:
 - a motor configured to operate in at least two modes, a low power mode and a high power mode, wherein the motor speed is suitable for normal adjustment operation in the low power mode and high speed operation in the high power mode,
 - a rollover sensor,
 - a normal adjustment operation motor ~~driver~~ power supply
 - and;
 - ~~an alternate safety motor driver~~ supplemental motor power supply triggered by the rollover sensor, adapted to provide a high power drive signal to the motor in response to a signal from the rollover sensor indicating the vehicle is in a rollover condition.
2. (currently amended) The seat of claim 1, wherein the power adjustment actuator is ~~at least one of:~~

a seat recliner wherein at least one of the seat cushion and back is reclined rearward rapidly by the motor in response to the signal from the rollover sensor,

~~a seat height adjuster wherein the seat is lowered rapidly by the motor in response to the signal from the rollover sensor, or~~

~~a seat position adjuster wherein the seat is moved either forward or backward relative to the front of the car rapidly by the motor in response to the signal from the rollover sensor.~~

3. (currently amended) The seat of claim 2, ~~further including~~ 1 or 2, wherein the power adjustment actuator is at least one of:

a seat position adjuster wherein the seat is moved in a side-to-side direction relative to the front of the car rapidly by the motor in response to the signal from the rollover sensor,

a seat height adjuster wherein the seat is lowered rapidly by the motor in response to the signal from the rollover sensor, or

a seat position adjuster wherein the seat is moved either forward or backward relative to the front of the car rapidly by the motor in response to the signal from the rollover sensor.

4. (currently amended) The seat of claim ~~2~~ 3, further comprising:
a seat compressor wherein at least one of the seat back and seat cushion is compressed in response to a signal from the rollover sensor indicating the vehicle is a rollover condition.
5. (original) The seat of claim 1, further comprising an integrated safety belt, with a pre-tensioner, wherein the pre-tensioner is triggered in response to a signal from the roll-over sensor.
6. (original) The seat of claim 4, comprising:
mechanisms that sense the position of the seat, and
a system to maximize the safety of a seat occupant by determining, from the position of the seat and the vehicle configuration, the optimum sequence, direction and magnitude of seat motions in response to the rollover signal.
7. (previously presented) The seat of claim 6, wherein the seat further comprises a system for sensing of at least one of the weight or size of the occupant.
8. (currently amended) A seat for a vehicle, comprising:

a seat back,

a seat cushion

at least one power adjustment actuator coupled to the seat, the actuator comprising;

a motor configured to operate in at least two modes, a low power mode and a high power mode, wherein the motor speed is suitable for normal adjustment operation in the low power mode and high speed operation in the high power mode,

a rollover sensor,

a normal adjustment operation motor ~~driver~~ power supply and;

~~an alternate safety motor driver~~ supplemental motor power supply triggered by the rollover sensor, adapted to provide a high power drive signal to the motor in response to a signal from the rollover sensor indicating the vehicle is in a rollover condition,

a seat compressor, wherein at least one of the seat back and seat cushion is compressed in response to a signal from the rollover sensor indicating the vehicle is a rollover condition, and;

and integrated safety belt with pre-tensioner.

9. (currently amended) The seat of claim 8, wherein the power adjustment actuator is ~~at least one of:~~

a seat recliner wherein at least one of the seat cushion and back is reclined rearward rapidly by the motor in response to the signal from the rollover sensor,

~~a seat height adjuster wherein the seat is lowered rapidly by the motor in response to the signal from the rollover sensor, or~~

~~a seat position adjuster wherein the seat is moved either forward or backward relative to the front of the car rapidly by the motor in response to the signal from the rollover sensor.~~

10. (currently amended) The seat of claim 2, ~~further including~~ 8 or 9, wherein the power adjustment actuator is at least one of:

a seat position adjuster wherein the seat is moved in a side-to-side direction relative to the front of the car rapidly by the motor in response to the signal from the rollover sensor,

a seat height adjuster wherein the seat is lowered rapidly by the motor in response to the signal from the rollover sensor, or

a seat position adjuster wherein the seat is moved either forward or backward relative to the front of the car rapidly by the motor in response to the signal from the rollover sensor.

11. (withdrawn) a seat for a vehicle, comprising:

a seat back,

a seat cushion

means for power adjustment of the seat for the seat,

comprising at least one motor coupled to the seat,

a rollover sensor, and:

a pyro actuator disposed between the motor and the seat,

wherein, in response to a signal from the rollover

sensor, the pyro actuator fires and pushes the seat such

as to cause very rapid movement of at least one of the

seat back and seat cushion.

12. (withdrawn) The seat of claim 11 wherein the movement is reclining.